



LASERMATE GROUP, INC.

The Friend of Lasers

Model No. LD830E1WG13 | LD830E1WK13
830nm 1W High Power FP Diode Laser in C-Mount/CoS Package

FEATURES

- 830nm 1W Fabry-Perot cavity semiconductor laser
- Provides beam shaping services, such as fast-axis compression according to customer demands
- Package: C-Mount, CoS



MODEL NUMBER	LD830E1WG13	LD830E1WK13
PACKAGE	C-Mount	CoS

SPECIFICATIONS (T_c = 20°C)

ITEM	PARAMETER	TYP.	UNIT
OPTICAL PARAMETER	Lasing wavelength	830±10	nm
	Output power	1	W
	Spectral width	≤3	nm
	Emitting area width	50	um
	Temperature coefficient	0.30	nm/°C
	Fast axis divergence	<40	deg
	Slow axis divergence	<10	deg
ELECTRICAL PARAMETER	Slope efficiency	≥1.03	W/A
	Threshold current	≤0.30	A
	Operating current	≤1.30	A
	Operating voltage	≤2.0	V
OTHERS	Package	C-Mount / CoS	-
	Operating temperature	15 to 30	°C
	Storage temperature	-40 to +60	°C
	Welding temperature	≤260	°C

Notes:

1. The above specifications are subject to change without notice.
2. Data in the sheet are based on C-mount package heat sink testing.



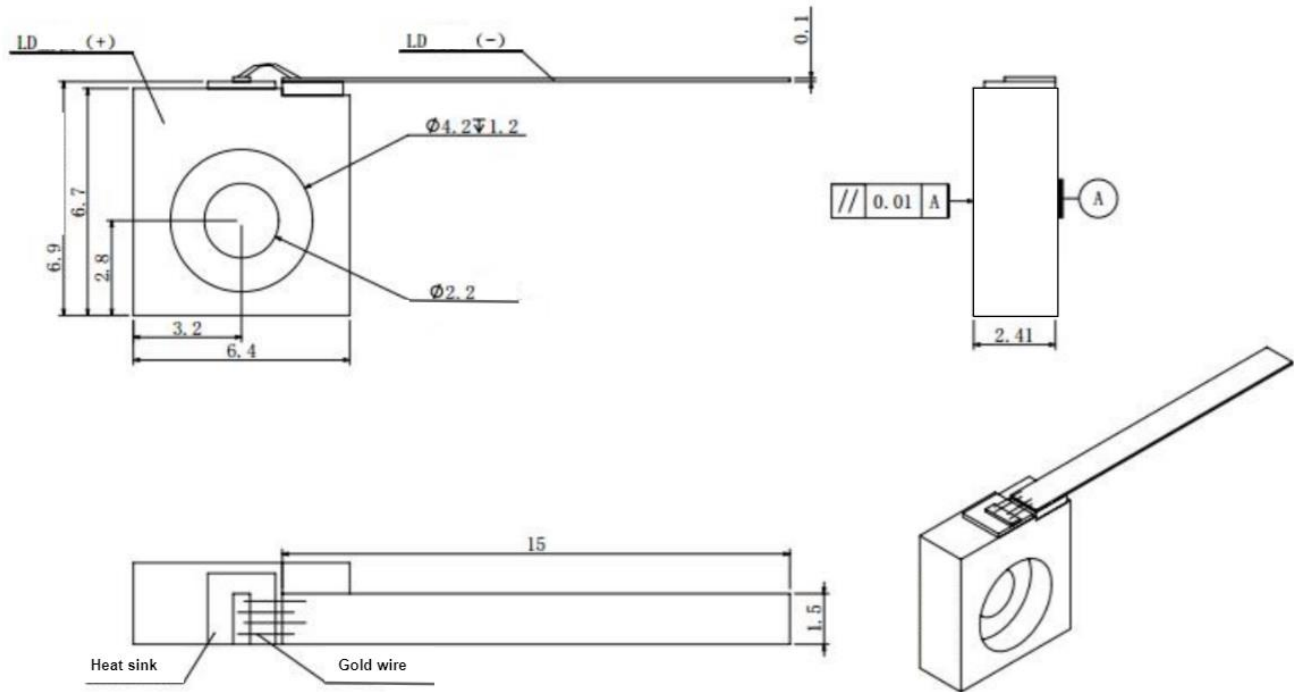


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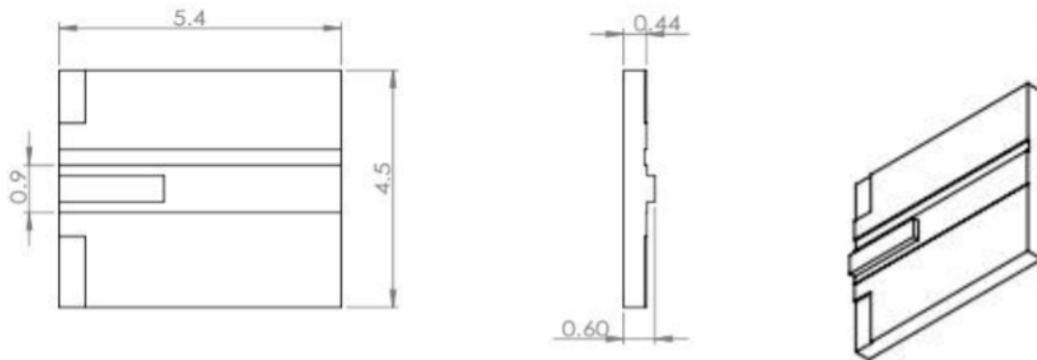
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MECHANICAL OUTLINE (unit: mm)

LD830E1WG13 (C-Mount Package)



LD830E1WK13 (CoS Package)



PRECAUTIONS

- Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- Observing visible or invisible laser beams with human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- No laser device should be used in any application or situation where life or property is at risk in the event of device failure.
- Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.



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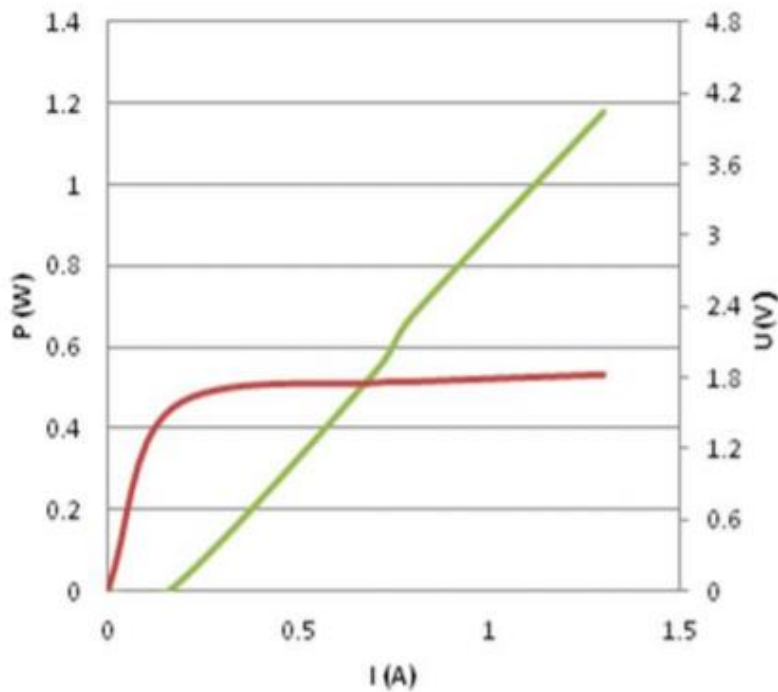


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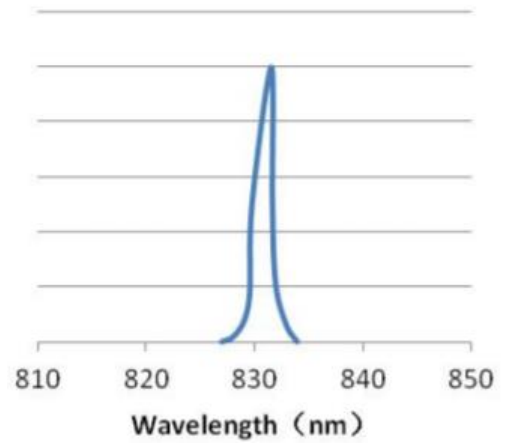
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TYPICAL CHARACTERISTICS

P-I-V Curve



Spectral Curve



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